


CANARA BANK

BOQ FOR ELECTRICAL WORK AT DBU RAJIV GANDHI UNIVERSITY, DOIMUKH, ARUNACHAL PRADESH

SL No.	Description	UNIT	QNTY	Rate	Amount
I MAIN LT PANEL /DBs					
1	Main Distribution board – 4 way TPN Single Door DB comprising of 63 A 4 pole ELMCB and incommer 1 nos., 1 nos.32 A DP MCB as outgoing for UPS, 2 nos. of 25 A SPMCB for AC units, 3 nos. 16 A SPMCB for lighting - Fascia/ Internal/ External. Schneider/Indo				
					
	Rate Shall be inclusive of Main Line Wiring upto a maximum length of 25 Metre from the supply source to the main panel and no extra for the same item shall be entertained in any manner				
	Full Set as above	NOS	1		
2	63 amp 4 POLE MCB + MS BOX	NOS	1		
II POINT WIRING					
1	Supply & Installation of concealed point wiring using 600V grade 2.5 sqmm copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through heavy gauge PVC conduits laid concealed over false ceiling or in wall chases including circuit wires from the relevant DB and also including 1.5 Sq.mm Green Colour Copper earth wire and provision of grid plate type (ROMA) switches and sockets as approved by Bank / Architect. Each circuit feeding not more than 8 points / 800 W as per the following configuration.				
a	Primary light points including the cost of 5A switch	NOS	11		
b	Secondary light points looped from the above point	NOS	6		
c	5A plug point as primary point	NOS	0		
d	Secondary 5A Plug point on switch board	NOS	0		
e	15A Plug Point directly taken from DB for UPS	NOS	1		
f	Wiring for Signages with 2R x 2.5 Sq.mm and 1R x 1.5 Sq.mm, PVC insulated copper conductor flexible cable to be connected to the SPN D/D consumer unit installed near rolling shutter outside the Branch	LS	1		
g	S & I of point wiring for UPS or stabilized power plug points on workstations / table for computers using 3C X 2.5 Sq.mm Cu. PVC sheathed white color flexible cable pulled through above False ceiling and cutting the walls as raceways are not provided and taken upto table top using PVC rigid or flexible conduits run within wooden or metal partitions. Each point consisting of 3 Nos of 2 / 3 Pin sockets and 1 No 15A switch, wired together forming one point. Switches and sockets to be (ROMA). Earth wire to be of Green colour only. (Only 2 tables served by one circuit from UPS DB) Cost is inclusive of necessary cutting the walls and including PVC Pipe required for taking the wires.	NOS	3		
h	S & I of points similar to above but to be used as raw power point on the tables consisting of one 5/15A socket with switch of other color and flexible cable of black color & circuit taken from Lighting DB (4 tables served by one circuit from LDB/PDB) Taken Above False ceiling and through walls as raceways are not provided. Cost is inclusive of necessary cutting the walls and including PVC Pipe required for taking the wires.	NOS	3		
III FITTINGS & FIXTURES					
1	S & I of lighting fixtures as per the details given below including necessary hardware such as clamps,nuts, bolts, nails, screws and suspension chains as required for fixing the fixtures in position as directed by architect / Consultant.				
a	PANEL LIGHT [PL] - Ultra Slim LED Panel made from extruded aluminium housing frame (recess / pendant) 2ft x 2ft , Wattage-30W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	NOS	3		
b	DOWN LIGHT [DL] - Round LED recess-mounted designer panel with aluminium die cast housing , Wattage-18W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	NOS	9		
c	S.I.T.C. of 12/13 Watt 6000/6500 K,(≥720 lumens) Recessed/Surface mounted LED Down Lighting Fixtures with fixing accessories. In Shutter Boxing	NOS	3		

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d	1200 MM CONNECT LED-Recessed narrow luminaires (20W range) with efficient optics ensuring perfectly uniform illumination, optimised and unparallel light distribution, Luminaire Type- BRTXn 20W LED 4F NW, colour- Natural White. Rates shall be inclusive of 2 nos of suspension strings of 1.5 mtrs each.	Nos	2		
e	1200 MM TUBE LIGHT [TL] - LED batten tubes, Glaze LED Batten, High quality aluminium extruded with decorative end caps, Wattage-20W, CCT- 4000 K, of Phillips, Havells, Bajaj, Wipro or equivalent as approved by the Engineer-incharge/ Architect.	NOS	2		
IV EARTHING					
1	S & I of earth pit comprising of 600mm x 600mm x 3mm. thick copper plate buried at a minimum depth of 2.5 meter including necessary materials like charcoal, salt etc as required conforming to BIS standards having brick masonry chamber with hinged cover and watering arrangement. Rates shall be inclusive of- S & I of copper /GI earthing wires/strips in following sizes and 8 SWG copper bare wire	NOS	1		
V WIRING FOR DATA AND VOICE OUTLETS					
1	Supplying, laying and termination of 4 pair Copper solid, twisted pair G600 CAT--6 cables through specified dia MS conduits / raceways. Cables must meet and exceed category 6/ class E standards requirements in ISO/IEC11801, CENELEC EN50173 & TIA 568-B2-1. and providing & terminating with RJ-45 (Krone make) with face plates / I/O Ports in suitable modular / MS box from server / EPABX room to individual work stations and terminating other end with RJ-45 connector including numbering with ferule. Note- Rates shall be all inclusive as mentioned in the description above and the payment for the same item shall be made on the number of points provided based on the above description.				
a	Outlets with Back Box & Single Face Plate & Termination Of LAN Cable etc. of Compscope/ D'Link Make (Including One extra in BM and 1 No for CCTV)	Nos	1		
b	Same as above but with Double Face Plate & Termination Of LAN Cable etc. of Compscope/ D'Link Make	Nos	2		
c	Testing, Labelling, scanning of I/O Nodes & submission of report.	Nos	5		
d	S.I.T.C. of 24 port Fully loaded Jack Panels	Nos	1		
e	S.I.T.C. of 3 Ft. Factory Crimped Mounting Cords Same Makes as in Item no b.	Nos	5		
f	S.I.T.C. of 7Ft. Factory Crimped Mounting Cords .Same Make as Item No b.	Nos	6		
g	S.I.T.C. of 6/9 U VALRACK/PRESIDENT etc Network Rack with proper dressing of cables	Nos	1		
VI	Dismantelling and Buyback of all electrical wirings, fittings and fixtures in the existing premises if permitted by the competent Institute authority/ premises owner, including wires, ceiling fan, light etc all complete and clearing the site for the new design as directed by the architect	Job	1.00		
TOTAL					

NOTE : The above quantities are approximately taken for estimation purpose they may increase or decrease. Contractor will be paid for actual work executed against each item. Brief specifications are given for each item. Minor verification in design and specification for each item are likely for which no extra payment will be given. Any of these items may be cancelled.

NOTE :- Cost inclusive of all taxes such as VAT, Work Contract Tax, Service Tax, Sales Tax, Govt. Tax., Local Taxes, Octroi, Transportation, loading, unloading expenses, Excise Duty etc. without any extra charge. The Contractor estimate shall also include MMC / Local Authorities Permission for smooth functioning the work.